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2010 Annual Report

Opening Minds to Science

Message from the Interim Dean

It is my pleasure to bring you the College of Science and Mathematics 2010 annual report. This report documents the fourth full year of our five-year strategic plan, *Opening Minds to Science*, and the progress we have made in our efforts to enhance the College of Science and Mathematics as an innovative leader at the frontiers of science, technology, engineering, and mathematics (STEM).

The College of Science and Mathematics 2010 report on *Opening Minds to Science* includes the following highlights. We hired two new faculty members in sensors physics, including an outstanding senior scientist appointed as Endowed Chair in Experimental Sensor Physics. Our faculty continued their high level of research activity and accomplishment. Research funding in our comprehensive and matrix departments totaled 12.5 million dollars. Faculty members made over 400 presentations and produced over 200 publications. The Women in Science Giving Circle awarded its third grants and scholarships to support women faculty and students in STEM disciplines. Fall 2010 undergraduate CoSM enrollments were up 10.2%, following respective 6.8% and 8.2% increases in Fall 2009 and Fall 2008. Graduate enrollments were also up 7.5%. Five WSU students studied mercury levels in the Atlantic Ocean off the New England coast this past summer as research assistants for Chad Hammersmidt's (EES) research funded by the National Science Foundation. Undergraduate research experience at Wright State garnered a Physics major admission to the Applied Physics PhD program at Harvard. Several students won awards for presentations or posters at local or regional meetings. Continuing a long tradition, the Chemistry Demo Program entertained and intrigued roughly 7500-8000 grade school through high school students, furthering our efforts at *Opening Minds to Science*.

It has been my privilege and pleasure to serve as Interim Dean following Michele Wheatly's departure to become Provost at West Virginia University. I am likewise delighted to warmly welcome Professor Yi Li, former Chair of the Department of Mathematics, University of Iowa, as our new dean effective July 1, 2011. Rest assured that the college is in excellent hands, and Dean Yi Li is leading us forward with great energy and enthusiasm!

We hope you will enjoy reading about our activities and accomplishments in 2010!

Sincerely,



Dan Voss, Interim Dean

College of Science & Mathematics

Enhance Core Capabilities for a Research Platform

In positioning Wright State University (WSU) as a nationally competitive research institution, we are strengthening our core capabilities to develop a research platform that allows us to showcase our facilities, equipment, technical support, and human intellectual capital.

HIGHLIGHTS:

In 2010, the college was successful in hiring several outstanding new faculty, including an Ohio Research Scholar. These new additions strengthen existing programs, particularly in terahertz sensing.

The *Ohio Research Scholar in Terahertz Sensing for the Layered Sensing Cluster*, funded by the Ohio Department of Development through UDRI arrived at WSU Spring 2010. Dr. Elliott Brown most recently was an EE professor at UCLA and a tenured full professor in the ECE department at University of California, Santa Barbara. Dr. Brown is a Fellow of the IEEE and of the American Physical Society. In 1998, he received an Award for Outstanding Achievement from the U.S. Office of the Secretary of Defense. Elliott holds a joint appointment with Electrical Engineering. His current work is pursuing both detectors (e.g., novel pyroelectric materials and capacitor arrays) and sources (e.g., novel ultrafast photoconductive switches and photomixers).

Ivan Medvedev joined the Physics Department in 2010 as an Assistant Professor. His PhD thesis from the Ohio State University included the theoretical analysis of the rotational spectra of molecules of astrophysical interest. His research interests lie in the area of experimental atomic and molecular optical physics, working on the development of analytical THz sensors in application to environmental and occupational chemical sensing

OHIO CENTERS OF EXCELLENCE

Timothy Cope, chair of NCBP, was named director of the Wright State University & Premier Health Partners Neuroscience Institute, one of three Ohio Centers of Excellence on campus. With neuroscientists and neurologists at the forefront of research and treatment, the Wright State University & Premier Health Partners Neuroscience Institute will provide the best possible care for neurological disorders. Molly Hall, M.D., chief academic officer and vice president of academic affairs for Premier Health Partners, announced the formation of the Neuroscience Institute at a news conference at Miami Valley Hospital. Premier Health Partners has made a major investment of \$4.35 million over five years to create a new Department of Neurology within Wright State University's Boonshoft School of Medicine.

The Ohio Center of Excellence in Human-Centered Innovation includes 56 faculty from six colleges, providing unique synergistic opportunities for collaboration. Many of these faculty are members of the Psychology Department and are active in the PhD program in Human Factors and Industrial Organization. The Ohio Center of Excellence in Human-Centered Innovation endeavors to create technology, processes, and services that are human centered, making technology work for people.

Other highlights include:

Michael Leffak (BMB) was elected Fellow of the AAAS and completed his third year as the WSU Golding Professor of Research.

Mark Rich (NCBP) was elected to the American Neurological Association.

Larry Prochaska (BMB) served on the Board of Directors, American Heart Association, Miami Valley and was elected Chairperson of Bioenergetics Sub-Group of the Biophysical Society. He was named the WSU Frederick A. White Distinguished Professor of Service.

Paul Seybold (Chemistry) was named External Fellow of the *Center for the Study of Biological Complexity* at Virginia Commonwealth University, Richmond, VA.

Several faculty, including Drs. Amon, Runkle, and Rooney, led the response to concerns about protecting the WSU Campus Woods in the long-range planning process. The Woods continues to be an important resource for teaching and research, as well as providing enjoyment to the whole campus community.

CoSM continues to hire some of the best and brightest young faculty. Two assistant professors were recipients of the 2010 Faculty Awards for Excellence. Chad Hammerschmidt, Assistant Professor in the Department of Earth and Environmental Sciences and Thomas Rooney, Assistant Professor in the Department of Biological Sciences each received Early Career Achievement awards.

Julian Gomez-Cambronero (BMB) received support from the NHLBI for "Mechanisms of PLD Interaction with Kinases and Rac: Role on Phagocyte Chemotaxis"

Heather Hostetler (BMB) received a grant from NIDDK to study "The Role of Long Chain Acyl-CoAs in Nuclear Receptor Regulation".

Michael Leffak (BMB) received support for the "Analysis of the Human c-myc Gene Replication Origin".

Oleg Paliy (BMB) received grant support for "Quantitative Measurements of Intestinal Metabolites in Healthy and IBS Children from NICHD".

Krishnasany Arasu (M&S) is working on "Algebraic Methods in the Study of Some Problems in Communication Engineering" with support from NSF.

Ashot Kozak (NCBP) has support from NIAID to study "Function and Regulation of TRPM7 Mg²⁺-inhibited Cation Channels". He also has a National AHA grant to study "Regulation of Ca²⁺ Entry Pathways by pH and PI (3,4,5)P₃ in Human T Lymphocyte Activation"

Jane Fox (Physics) has NASA support for her work on "The Hydrocarbon Ion Layer in the Low Altitude Ionosphere of Saturn".

Robert Ritzi and David Dominic (EES) have NSF funding for "High-Performance Computing to Evaluate Hierarchical Heterogeneity Paradigms in Sedimentary Aquifer".

Eric Fossum (Chemistry) has NSF support for his studies on "Poly (arylene ether)s from Activated 3,5-Difluoro Aromatic Systems: Synthesis, Functionalization, and Characterization".

Tim Cope (NCBP) received grant support from NINDS for studying "Assemblies of Motor Units".

Gale Kleven (Psychology) is supported by a grant from NINR to study "Pathways of Bio-Behavioral Development in the Fetal Basis of Adult Disease".

Bob Putnam (NCBP) received funding from NHLBI for his studies on "Intracellular pH Responses of Central Chemoreceptors".

Women In Science Giving Circle awarded grants and scholarships:

2010 WISGC Grant Recipients

Katherine Excoffon, Assistant Professor, Department of Biological Sciences

Barbara Kraszpulska, Assistant Professor, Department of Neuroscience, Cell Biology and Physiology

2010 WISGC Scholarship Recipients

Alyssa Fosnight – Engineering Physics/Mathematics

Diane Iragena – Biological Science/Pre-Med

Molly Miklasevic – Psychology

Christina Thomas – Biological Science/Pre-Med

Full-Time Faculty (FTE)		Opening Minds to Science				
	Fall 2006	Fall 2007	Fall 2008	Fall 2009	Fall 2010	Fall 2011
Professors	45.6	46.7	51.4	52.9	52.6	
Associate Professors	49.5	50.0	49.4	48.8	48.1	
Assistant Professors	23.0	20.5	20	23.7	26.3	
Instructors and Lecturers	17.0	23.0	26	22.5	25	
Total Faculty	135.0	140.0	146.8	147.9	152	

Research Funding (Comprehensive Departments)		Opening Minds to Science				
	2006	2007	2008	2009	2010	2011
Grants funded	136	139	104	98	112	
Dollars awarded (millions)	8.6	9.2	7.7	10.4	9.0	

Research Funding (Matrix Departments)		Opening Minds to Science				
	2006	2007	2008	2009	2010	2011
Grants funded	27	27	25	25	25	
Dollars awarded (millions)	3.7	4.2	4.2	5.1	3.5	

Scholarly Activities (Total)		Opening Minds to Science				
	2006	2007	2008	2009	2010	2011
Publications (Refereed Articles and Book Chapters)	212	196	175	198	220	
Presentations and invited talks	321	324	339	356	406	
Editorial Board Membership	26	28	50	61	44	

Expand Interdisciplinary Capabilities to Solve Complex World Problems

As our world becomes increasingly complex, its problems will require solutions that involve interdisciplinary teams with innovative approaches. The three PhD programs in CoSM each have an interdisciplinary base that draws on faculty in many departments. Faculty members made over 300 presentations, including invited lectures. Wright State hosted many renowned speakers.

HIGHLIGHTS:

Dr. Larry Kurdek, an internationally recognized expert on the study of post-divorce families and gay/lesbian relationships, served on the faculty of the Department of Psychology at Wright State University for over 30 years, before passing away in 2010. Larry was respected and admired by students and colleagues alike. The Larry Kurdek Memorial Lecture honors his memory and the many contributions he made as a researcher and colleague with a presentation by eminent scientists in Larry's fields of study. On Friday, October 15, 2010, Drs. Marilyn Coleman and Larry Ganong from the University of Missouri presented "Relationship Resilience in Stepfamilies".

Dr. Paula Bubulya (Bio), Chair-elect of the Rustbelt regional branch of the RNA Society, co-organized that group's annual research conference in Cleveland, and is lead organizer for the 2011 meeting in Dayton.

Dr. David Goldstein (Bio) organized a symposium at the American Physiological Society (APS) Conference on Comparative Physiology, and served on the organizing committee of the International Conference for Comparative Physiology and Biochemistry in Nagano, Japan.

Pamela Tsang (Psy) was the program co-chair for the 16th International Symposium on Aviation Psychology, Dayton, Ohio.

Dr. Kate Excoffon (Bio), received funding from the NIH for "Isoform-Specific Regulation and Localization of the Cocksackie and Adenovirus Receptor in Airway Epithelia."

Dr. Yvonne Vadeboncoeur (Bio) received support from NSF for her continued study on "Primary Productivity by Grazing Fish in Lake Tanganyika, Tanzania".

Doug Petkie (Physics), Julie Skipper (CECS), and Tamaera Schneider received support from DoD, Office of Naval Research to study "Multimodel Human Signatures for State Assessment and Threat Evaluation".

Strengthen Graduate Education

This Core Strategy is to strengthen graduate education in CoSM through growth in doctoral programs and recruitment of top faculty, and outstanding students. The college has three interdisciplinary PhD programs in addition to eleven MS degree programs. The relatively young ES PhD program has just begun graduating new young scientists.

HIGHLIGHTS:

Deah Lieurance, E.S. Ph.D. student with Dr. Don Cipollini, won an Outstanding Oral Presentation Award at the meeting of the Southeast Exotic Plant Pest Council in Lexington, KY.

Philip Levretsky, E.S. Ph.D. student with Dr. Jeff Peters, was awarded a \$10,000 Bonnycastle Fellowship in Wetland Biology from Ducks Unlimited, and \$2000 from the American Museum of Natural History.

Samantha Davis, first-year ES PhD student in the laboratory of Don Cipollini, received a \$3000 Botany-in-Action fellowship from Phipps Conservatory and Botanical Gardens in Pittsburgh, PA.

Keshia Torres and Abimbola Kolawole, graduate students with Drs. Paula Bubulya and Kate Excoffon, respectively, received minority student travel awards for the American Society of Cell Biology conference.

Jeff Fogle (Chemistry) received the CoSM Outstanding Teaching Award

The Best Graduate Poster (American Chemical Society) at the Dayton ACS/SAS Patterson Awards Meeting went to Michael Mante, and Fadwa Constandinidis won the Outstanding Junior Award.

Jennifer Monahan was named the Chemistry Department Outstanding Graduate Student based on her teaching and research.

In EES, Sarah Brooks (MST), Brian Congiu (MS), and Christina Powell (ES PhD) received Graduate Student Excellence Awards.

BMB graduate students Madhu Makankali and Laura Rigsbee won Graduate School Excellence Awards

Ann Imber (MD/PhD student, NCBP) received a Predoctoral Fellowship, Great Rivers Affiliate of the American Heart Association. She also won several awards for her poster presentations.

Amanda Balaguer and Jared Duncan received the Chemistry Department Outstanding Teaching Award and the Hypercube Software Award in the Chemistry Department went to Edur Boyini Paill.

Enrollment in M.S. and M.S.T. Programs		Opening Minds to Science				
	Fall 2006	Fall 2007	Fall 2008	Fall 2009	Fall 2010	Fall 2011
Biochemistry & Molecular Biology, M.S.	10	10	9	11	12	
Biological Sciences, M.S.	43	37	45	33	27	
Chemistry, M.S.	34	26	33	35	36	
Earth & Environmental Science (with Geological sciences) M.S.	24	24	30	28	27	
Mathematics, Applied Math, Applied Statistics, M.S.	24	31	25	23	29	
Microbiology & Immunology, M.S.	11	14	15	18	19	
Physiology & Neuroscience, Anatomy, MS	36	44	43	51	53	
Physics, M.S.	18	10	11	15	18	
Human Factors / Ind Psych, M.S.	7	5	5	6	7	
Total M.S.T.	31	21	26	18	27	
Total	238	222	242	238	255	

Degrees Awarded, M.S./M.S.T.		Opening Minds to Science				
	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12
Biochemistry & Molecular Biology, M.S.	1	4	6	1		
Biological Sciences, M.S.	12	8	11	14		
Chemistry, M.S.	11	10	8	15		
Earth & Environmental Science, Geology, M.S.	10	6	13	6		
Mathematics, Applied Math, Applied Statistics, M.S.	9	7	7	10		
Microbiology & Immunology, M.S.	4	4	2	3		
Physiology & Neuroscience, Anatomy, MS	3	12	10	11		
Physics, M.S.	6	4	2	4		
Human Factors / Ind Psych, M.S.	7	4	6	6		
Earth Science, M.S.T.	5	5	3	9		
Interdisciplinary Science & Math, M.S.T.	3	6	2	1		
Total Degrees Awarded	71	69	71	80		

Enrollment, Ph.D. Programs		Opening Minds to Science				
	Fall 2006	Fall 2007	Fall 2008	Fall 2009	Fall 2010	Fall 2011
Biomedical Sciences	46	53	56	50	51	
Environmental Sciences	20	21	17	18	22	
Psychology (HF/IO)	47	49	48	42	45	
Total	113	123	121	110	118	

Degrees Awarded, Ph.D.		Opening Minds to Science				
	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12
Biomedical Sciences	4	3	5	8		
Environmental Sciences	–	2	4	1		
Psychology (HF/IO)	3	5	9	3		
Total	7	10	18	12		

Position CoSM as a Regional Research and Educational Partner of Choice

The College established stronger presence in the community and region by participating in various applied educational- and research-based economic initiatives supported by Wright-Patterson Air Force Base (WPAFB), the Air Force Research Laboratory (AFRL), industry, medicine, and the local economic development community. CoSM also partnered with other area institutions of higher education to develop regional educational planning as well as a regional research platform.

HIGHLIGHTS:

Dr. Jim Amon (Bio) and Dr. Abinash Agrawal (EES) received funding from AFIT for “Bioremediation of Chlorinated Ethenes in Constructed Wetlands at WBAFB.”

Doug Petkie (Physics) and Kefu Xue are supported by Air Force Research and AFRL for work on “Academic Pipeline and Future Lab –Supplement”.

Robert Gilkey (Psychology) received support from daytaOhio for “Evaluating the Use of Auditory Systems to Improve Performance in Search and Rescue Missions”.

Dr. Wayne Carmichael, Emeritus Professor, hosted a workshop for the Ohio EPA on Cyanobacteria Harmful Algal Blooms and Water Quality. The workshop was held in the Biology Dept. at Wright State.

Dr. Dan Krane hosted in Dayton I “Expert Forum on The Science of DNA Profiling,” with presentations from leading scientific experts and attorneys in that field.

Jacqueline Neal hosted the Pathway to Health Professions event, which attracted >400 pre-college participants and their parents, along with representatives from professional schools across the state.

The Chemistry Demo Program, led by Professors *Emeriti* Rubin Battino and John Fortman, with the assistance of Kirby Underwood (Freshman Lab. Manager) reaches roughly 7500-8000 high school, junior high, and grade school students each year with multiple presentations in December and March.

Horizons in Medicine is a program that offers local high school students, mostly from disadvantaged or minority backgrounds, the opportunity to see first hand the science and delivery of health care that forms the foundation of a career in medicine. Gary Nieder (NCBP) directed the instruction of 20 HS students for the one-week anatomy segment

“Exploring Human Anatomy: An Interactive Anatomy Lab Experience” is a hands-on Anatomy Lab experience that provides a great opportunity for students to further their understanding of human anatomy. Presentations were made by Dan Miska (NCBP) to over 800 high school and technical college students. Dan also helps organize the EMS Cadaver Anatomy Procedure Lab – Gross anatomy instruction coupled with training for ~150 area EMS personnel.

Exercise National Leadership in the Science of Teaching and Learning

This Core Strategy is to exercise national leadership in the science of teaching and learning, responding to society's need for mathematics and science literacy and a globally competitive workforce.

HIGHLIGHTS:

The faculty in math and science education received four Improving Teacher Quality (ITQ) grants through OBR. The total dollar amount of the awards was \$458,748, the largest number of awards and the largest total dollar amount received by any Ohio College or University. These awards supported six professional development programs for area teachers (1 in Biological Science, 3 in Earth Science, 1 in Mathematics and 1 in Physical Science) with a total of 167 participants.

Ann Farrell (M&S) won the 2010 Kenneth Cummins Award from Ohio Council of Teachers for Mathematics, for exemplary post-secondary teaching. This is one of the two statewide awards for mathematics educators and she is just the sixth person to receive this award.

Bill Slattery (EES) is supported by the Ohio Board of Regents to study "Science Teaching for Ohio's New Economy (STONE)" with Suzanne Lunsford (Chemistry). The STONE grant was co-sponsored by the Ohio Aggregate and Mineral Association.

Wayne Shebilske (Psychology) and Jeff Venrooy have support from Ohio Rehabilitation Services Commission for "Precollege Assessment and Training".

Kathy Koenig (Physics) and Missy Schen (Bio) have an NSF grant for "Developing Scientific Reasoning Abilities in Pre-service Teachers"

Lisa Kenyon (Bio) worked with the Dayton Regional STEM School to develop science curriculum. She also worked with Oakwood City Schools as education advisor to Science Audit Panel Committee.

Melinda Diesslin (M&S) received the President's Award for Excellence: Outstanding Lecturer.

David Goldstein (Bio) joined the Executive Board of the Dayton Regional STEM School.

Suzanne Lunsford (Chemistry) and Bill Slattery (EES) were promoted to full professor and Lisa Kenyon (Biology) to Associate Professor with tenure. Also in Biology, Dr. Tom Bubulya was hired as Lecturer and Beverly Schieltz was promoted to Senior Lecturer.

Improve Undergraduate Student Success

The Core Strategy is to strengthen the undergraduate student success through general education, student-centered faculty, research opportunities, the advising process, student-support programming, and the recruitment of top undergraduate students.

HIGHLIGHTS:

Overall, main campus enrollment for Fall 2010 was up 5.1 %. Undergraduate enrollment in CoSM increased 10.2% and graduate enrollment was up by 7.5%.

Jaclyn Klaus (Bio) was one of five Wright State University students who studied mercury levels in the Atlantic Ocean off the New England coast this past summer as a research assistant for Chad Hammerschmidt's (EES) research funded by the National Science Foundation. This is the third year undergraduates have had this opportunity. Working on the boat were students and scientists from the University of Connecticut and Woods Hole Oceanographic Institution. WSU students joining Klaus aboard the RV Oceanus were Katlin Bowman, Avani Naik, Deepthi Nalluri and Melissa Tabatchnick.

Dr. Chad Hammerschmidt points out his study sites:



Zach Gault (Physics major with a 2nd major in philosophy and minor in math) was a member of the Dean's Circle was admitted to an Applied Physics PhD program at Harvard. Zach did undergrad research with Jason Diebel and 2 summer REU programs at Harvard and Cornell. Zach transferred from Miami to Wright State after his first year of college, and says it's the smartest decision he could have made.

Jacqueline Neal (Pre-med Advisor) was selected to represent the Central Region on the Program Committee of the National Association of Advisors for the Health Professions.

A record of at least 9 sophomore undergraduate students were accepted into the Boonshoft School of Medicine's Early Assurance program.

13 Biology students graduated with Honors, including 8 who completed honors research projects.

Matthew Porter, laboratory preparator for Introductory Biology, was WSU Student Employee of the Year.

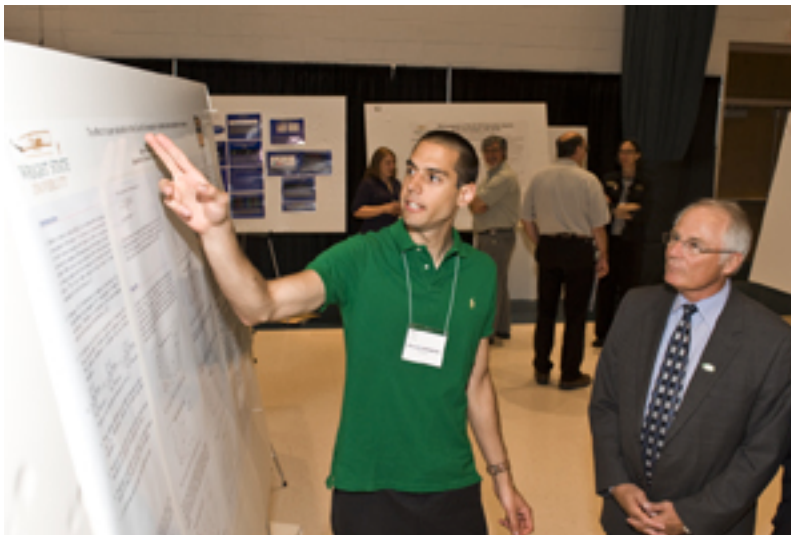
Kyle Leggett and Brittany Reinert were among 11 students nation-wide awarded the Amer. Physiological Society's Bruce Award for Excellence in Undergraduate Research at the Experimental Biology meeting in DC. This was the second consecutive year that a student (Reinert) working with Dr. Lynn Hartzler won this award.

For the second consecutive year, a Wright State Clinical Laboratory Sciences student (Sarah Frey) won the prestigious American Society of Clinical Pathology Scholarship award, one of 70 awards nationwide.

Jessica Clemmons (EES) was a recipient of the Choose Ohio First Scholarship.

STREAMS is funded by the [National Institutes of Health](#) to encourage members of under-represented minority groups and students with disabilities to choose careers in cardiovascular-related research. Bob Putnam (NCBP) mentored students and is a program admissions committee member.

Dennis Lennaerts explains his research to President Hopkins at the campus-wide Celebration of Research, Scholarship and Creative Activities:



Undergraduate Enrollment By Program		Opening Minds to Science				
	Fall 2006	Fall 2007	Fall 2008	Fall 2009	Fall 2010	Fall 2011
Biological Sciences	641	641	701	745	750	
Chemistry	142	113	130	139	181	
Clinical Laboratory Science	40	36	44	53	93	
Earth and Environmental Science	68	71	66	86	104	
Integrated Science	15	10	6	10	11	
Mathematics	81	73	95	105	109	
Physics	31	22	26	35	41	
Psychology	644	679	738	769	883	
Undeclared Science & Mathematics	126	137	122	192	196	
Total Enrollment	1788	1782	1928	2134	2368	

Undergraduate Degrees Awarded by Program		Opening Minds to Science				
	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12
Biological Sciences	92	105	96	92		
Chemistry	31	22	22	14		
Clinical Laboratory Science	3	7	7	3		
Earth and Environmental Science	8	7	11	16		
Mathematics	22	17	19	15		
Physics	5	4	2	4		
Psychology	139	170	148	162		
Total Degrees Awarded (all)	303	331	313	308		



Undergraduate Enrollment* by Gender and Ethnicity		Opening Minds to Science				
	Fall 2006	Fall 2007	Fall 2008	Fall 2009	Fall 2010	Fall 2011
Female	797	770	802	925	1012	
Male	511	510	485	552	615	
American Indian/Alaskan Native	8	7	6	10	6	
Asian/Pacific Islander	54	57	64	70	67	
Black/Non-Hispanic	127	127	130	177	196	
Foreign/Non-Resident Alien	15	22	22	20	15	
Hispanic	18	19	19	19	36	
Unknown	110	92	83	85	73	
White	976	956	963	1096	1233	

*Does not include students in University College who intend to major in the CoSM

Develop and Expand Alumni Relations

The Core Strategy is to develop and expand relationships with our CoSM alumni to engage them as partners in our mission. The college has awarded over 8,500 undergraduate and graduate degrees. Many of WSU's alumni remain in the region. Our goal is to become reacquainted with more of them since they can become active partners in "Opening Minds to Science" through sharing their success and affording business/research opportunities to the CoSM STEM graduates of tomorrow.

The 2010 College of Science and Mathematics Outstanding Alumni Award recipient is Shelley J. Coldiron, '77 B.S. Biological Sciences and '87 M.S. Chemistry. Dr. Coldiron went on to obtain her Ph.D. from Iowa State University in biomedical engineering focused on innovations in fiber optic-based chemical sensors. She co-founded Advanced Analytical Technologies, Inc. and currently resides in Salt Lake City, Utah.

Robert Ritzi, Professor in the Department of Earth and Environmental Sciences, was given the *Outstanding Alumni Award 2010* from the School of Graduate Studies. Dr. Ritzi received his B.A. from Wittenberg University in 1981 and his M.S. from Wright State University in 1983. He went on to earn his Ph.D. from the College of Engineering, Department of Hydrology and Water Resources at the University of Arizona before returning to WSU in the department previously known as Geological Sciences.

Munsup Seoh (M&S) received the Martin Luther King, Distinguished Service Award, for work towards eradication of racism, violence and poverty.

Christopher Adkins-Lamb was hired as Director of Development, with CoSM and the School of Nursing as his primary responsibilities. Chris is a WSU alum and recently worked in development at Miami University.

The 2010 Dean's Circle, with Interim Dean Dan Voss:

